

Virginia Department of Health

Radiological Health

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RH-F-24

FLUOROROSCOPIC RADIOGRAPHIC SYSTEMS

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TUBE REGISTRATION # _____

Registrant Name _____
Surveyor Name _____
Surveyor Signature _____
Survey Date _____

Machine:
Make _____ Purpose _____
Model _____ Serial _____
Max. kVp _____ Max. mA _____
Room # _____ Phase: _____ 1 _____ 3

OK N/A N/S S

- ____ 1. Warning label not present (12 VAC 5-481-1600A). **NON-SERIOUS**
- ____ 2. HVL at ____ kVp is ____ mm Al. Minimum is ____ mm Al (12 VAC 5-481-1600A). Deficiency of
≤ .2 mm **NON-SERIOUS**, deficiency of > .2 mm **SERIOUS**.
- ____ 3. Primary barrier does not intercept the entire beam at all SID's. (12 VAC 5-481-1610A). **SERIOUS**.
- ____ 4. X-rays may be produced when primary barrier is not in position to intercept the beam (12VAC 5-481-1610A).
SERIOUS.
- ____ 5. The length ____ width ____ of X-ray field exceeds that of the visible area by ____ % of the SID
and/or the sum of both percentages is ____ % (12 VAC 5-481-1610A2). >3% to <6% of one or > 4% to < 8% of both,
NON-SERIOUS, ≥ 6% of one or ≥ 8% of both, **SERIOUS**.
- ____ 6. No means to reduce the area of the X-ray field to less than that of the visible area such that the minimum field size at the
maximum SID is ≤ 5 cm x 5 cm (12 VAC 5-481-1610A2). **SERIOUS**.
- ____ 7. Fluoroscopic control does not require constant operator pressure (12 VAC 5-481-1610B). **SERIOUS**.
- ____ 8. Maximum entrance exposure rate is ____ R/min. (Systems without HLC, 12 VAC 5-481-1610D). >10 to < 12 R/min
NON-SERIOUS, ≥ 12 R/min **SERIOUS**.
- ____ 9. Maximum entrance exposure rate is ____ R/min without HLC activated: is ____ R/min with HLC activated. Systems with
HLC, 12 VAC 5-481-1610C). Not activated: > 5 to < 12 R/min **NON-SERIOUS**, ≥ 12 R/min **SERIOUS** HLC activated:
>15 to < 17 R/min **NON-SERIOUS**, ≥ 17 R/min **SERIOUS**.
- ____ 10. Barrier transmission rate is ____ mR/hr per R/min entrance exposure rate (12 VAC 5-481-1610C). > 2 to < 4 mR/hr
NON-SERIOUS, ≥ 4 mR/hr **SERIOUS**.
- ____ 11. Minimum source to skin distance is ____ cm. Minimum allowed is: 38 cm (stationary, installed after 9/1/80); 35.5 cm
(stationary, installed before 9/1/80); 30 cm (mobile); 20 cm (special surgical applications) (12 VAC 5-481-1610F). **NON-**
SERIOUS.
- ____ 12. Five minute timer is not present or does not operate properly(12 VAC 5-481-1610G). **NON-SERIOUS**.
- ____ 13. Scatter radiation from above the table is not attenuated by at least 25 mm lead equivalent (except small procedures) (12
VAC 5-481-1610H). **NON-SERIOUS**.
- ____ 14. Scatter radiation from under the table is not attenuated by at least 25mm lead equivalent (except special procedures) (12
VAC 5-481-610H). **SERIOUS**.
- ____ 15. kVp accuracy is ± ____ % of indicated kVp at ____ kVp (12 VAC 5-481-1620F). >10% to 15% **NON-SERIOUS**, ≥ 15%
SERIOUS.
- ____ 16. Other / Remarks
